

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) Device for scanning a yarn that is moved in its longitudinal direction in a measuring gap with a light beam from a light source, comprising a receiver for light reflected at the yarn, a unit for processing electrical signals from the receiver, and a single light source for emitting light in at least two wavelength regions, the wavelength regions being determined by two main wavelengths, said unit for processing electrical signals from the receiver including a computer which forms a vector from the values for each of the at least two specified wavelength regions and forms a sum vector from the vectors, wherein for the end point of the sum vector in a space a region is delimited which indicates whether the electrical signal from the receiver processed to form the sum vector indicates a foreign body in the yarn.

2. (Previously Presented) Device according to claim 1, wherein the main wavelengths determine two colours in the region of wavelengths of visible light.

3. (Previously Presented) Device according to claim 2, wherein the main wavelengths relate to the colours red, green and blue.

4. (Previously Presented) Device according to claim 1, wherein the single light source is in the form of a light-emitting diode which is able separately to emit visible light in three colours in the visible range.

5. (Previously Presented) Device according to claim 1, wherein the single light source and a receiver have principal axes for the emission and reception of light which together span a plane that is transverse to the longitudinal direction of the yarn.

6. (Cancelled)

7. (Currently Amended) Device according to claim [[6]] 1, wherein the space forms a cube which is formed by axes along which values for the intensity of three main wavelengths are plotted.